

| L Number | Hits | Search Text | DB | Time stamp |
|-------------|-------|---|---------------------------------|---------------------|
| 1 | 10045 | ((wiring near board) (printed adj circuit adj board) pcb) with (aperture opening) | USPAT; US-PGPUB; EPO; JPO | 2002/11/12 14:39 |
| 2 | 18 | (US-6175159-\$ or US-5953214-\$ or US-5671121-\$ or US-5613033-\$ or US-5373110-\$ or US-6262477-\$ or US-6229207-\$ or US-5144412-\$ or US-4965227-\$ or US-6469909-\$ or US-6394820-\$ or US-5745346-\$ or US-5531329-\$ or US-5413489-\$ or US-5163837-\$ or US-4437718-\$ or US-4832612-\$ or US-4340266-\$).did. | USPAT | 2002/11/12 14:39 |
| 3 | 49975 | ((wiring ajj board) (printed adj circuit adj board) (chip adj carrier) pcb) with (aperture opening) | USPAT; US-PGPUB; EPO; JPO | 2002/11/12 14:41 |
| 4 | 0 | 6394820.URPN. | USPAT | 2002/11/12 14:42 |
| 5 | 73 | ("2578288" "2951817" "3229756" "3728509" "3760342" "3870385" "3971610" "4295699" "4514784" "4550959" "4655524" "4668957" "4678250" "4729166" "4754546" "4862076" "4923739" "5074799" "5123849" "5127837" "5129833" "5137462" "5140405" "5155661" "5163837" "5286218" "5313099" "5318456" "5340318" "5377900" "5387861" "5389819" "5397240" "5397245" "5397919" "5418471" "5432679" "5445526" "5468158" "5473510" "5477160" "5528462" "5548223" "5566052" "5636996" "5662163" "5667870" "5691041" "5699227" "5710459" "5712768" "5730620" "5735698" "5741141" "5742481" "5745346" "5766022" "5770891" "5783461" "5793618" "5805424" "5810607" "5819406" "5829988" "5833471" "5859538" "5876219" "5879172" "5892245" "5893765" "5896037" "5923176" "5982635").PN. | USPAT | 2002/11/12 14:43 |
| 6 | 12 | 5982635.URPN. | USPAT | 2002/11/12 14:44 |
| 7 | 19 | ("Re31929" "3846734" "3875478" "4356532" "4494172" "4519658" "4626958" "4636918" "4779164" "4882656" "4912401" "5061989" "5168432" "5205741" "5310574" "5445526" "5460531" "5481435" "5585671").PN. | USPAT | 2002/11/12 14:46 |
| 8 | 6000 | (pga bga ((pin ball) adj grid adj array)) and pad | USPAT; US-PGPUB; EPO; JPO | 2002/11/12 14:59 |
| 9 | 806 | ((wiring ajj board) (printed adj circuit adj board) (chip adj carrier) pcb) with (aperture opening)) and ((pga bga ((pin ball) adj grid adj array)) and pad) | USPAT; US-PGPUB; EPO; JPO | 2002/11/12 15:00 |
| 10 | 265 | ((((wiring ajj board) (printed adj circuit adj board) (chip adj carrier) pcb) with (aperture opening)) and ((pga bga ((pin ball) adj grid adj array)) and pad)) and alignment | USPAT; US-PGPUB; EPO; JPO | 2002/11/12 15:23 |
| 11 | 7 | 5129833.URPN. | USPAT | 2002/11/12 15:05 |
| 14 | 5 | 5531329.URPN. | USPAT | 2002/11/12 15:09 |

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|----|-----|---|---------------------------------|---------------------|
| 15 | 12 | ("3652974" "4556145" "4718548" "4765471" "4767984" "4881639" "5026303" "5066245" "5080228" "5263583" "5291994" "5375710").PN. 5413489.URPN. | USPAT | 2002/11/12 15:10 |
| 16 | 13 | | USPAT | 2002/11/12 15:12 |
| 17 | 258 | (((((wiring ajj board) (printed adj circuit adj board) (chip adj carrier) pcb) with (aperture opening)) and ((pga bga ((pin ball) adj grid adj array)) and pad)) and alignment) not (("2578288" "2951817" "3229756" "3728509" "3760342" "3870385" "3971610" "4295699" "4514784" "4550959" "4655524" "4668957" "4678250" "4729166" "4754546" "4862076" "4923739" "5074799" "5123849" "5127837" "5129833" "5137462" "5140405" "5155661" "5163837" "5286218" "5313099" "5318456" "5340318" "5377900" "5387861" "5389819" "5397240" "5397245" "5397919" "5418471" "5432679" "5445526" "5468158" "5473510" "5477160" "5528462" "5548223" "5566052" "5636996" "5662163" "5667870" "5691041" "5699227" "5710459" "5712768" "5730620" "5735698" "5741141" "5742481" "5745346" "5766022" "5770891" "5783461" "5793618" "5805424" "5810607" "5819406" "5829988" "5833471" "5859538" "5876219" "5879172" "5892245" "5893765" "5896037" "5923176" "5982635").PN.) not (("Re31929" "3846734" "3875478" "4356532" "4494172" "4519658" "4626958" "4636918" "4779164" "4882656" "4912401" "5061989" "5168432" "5205741" "5310574" "5445526" "5460531" "5481435" "5585671").PN.) not (("3652974" "4556145" "4718548" "4765471" "4767984" "4881639" "5026303" "5066245" "5080228" "5263583" "5291994" "5375710").PN.) not 5413489.URPN. | USPAT; US-PGPUB; EPO; JPO | 2002/11/12 15:14 |

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|----|-----|---|---------------------------------|---------------------|
| 18 | 256 | ((((wiring ajj board) (printed adj circuit adj board) (chip adj carrier) pcb) with (aperture opening)) and ((pga bga ((pin ball) adj grid adj array)) and pad)) and alignment) not ("2578288" "2951817" "3229756" "3728509" "3760342" "3870385" "3971610" "4295699" "4514784" "4550959" "4655524" "4668957" "4678250" "4729166" "4754546" "4862076" "4923739" "5074799" "5123849" "5127837" "5129833" "5137462" "5140405" "5155661" "5163837" "5286218" "5313099" "5318456" "5340318" "5377900" "5387861" "5389819" "5397240" "5397245" "5397919" "5418471" "5432679" "5445526" "5468158" "5473510" "5477160" "5528462" "5548223" "5566052" "5636996" "5662163" "5667870" "5691041" "5699227" "5710459" "5712768" "5730620" "5735698" "5741141" "5742481" "5745346" "5766022" "5770891" "5783461" "5793618" "5805424" "5810607" "5819406" "5829988" "5833471" "5859538" "5876219" "5879172" "5892245" "5893765" "5896037" "5923176" "5982635").PN.) not ("Re31929" "3846734" "3875478" "4356532" "4494172" "4519658" "4626958" "4636918" "4779164" "4882656" "4912401" "5061989" "5168432" "5205741" "5310574" "5445526" "5460531" "5481435" "5585671").PN.) not ("3652974" "4556145" "4718548" "4765471" "4767984" "4881639" "5026303" "5066245" "5080228" "5263583" "5291994" "5375710").PN.) not 5413489.URPN.) not ((US-6175159-\$ or US-5953214-\$ or US-5671121-\$ or US-5613033-\$ or US-5373110-\$ or US-6262477-\$ or US-6229207-\$ or US-5144412-\$ or US-4965227-\$ or US-6469909-\$ or US-6394820-\$ or US-5745346-\$ or US-5531329-\$ or US-5413489-\$ or US-5163837-\$ or US-4437718-\$ or US-4832612-\$ or US-4340266-\$).did.) | USPAT; US-PGPUB; EPO; JPO | 2002/11/12 15:14 |
| 19 | 9 | (((wiring ajj board) (printed adj circuit adj board) (chip adj carrier) pcb) with (aperture opening)) and ((pga bga ((pin ball) adj grid adj array)) and pad)) and (alignment near pad) | USPAT; US-PGPUB; EPO; JPO | 2002/11/12 15:23 |
| 20 | 2 | 6114769.URPN. | USPAT | 2002/11/12 15:25 |
| 21 | 13 | ("5468999" "5551627" "5691041" "5796590" "5838069" "5844316" "5859474" "5861678" "5869904" "5883438" "5892288" "5921462" "5930889").PN. | USPAT | 2002/11/12 15:25 |